WHAT IS CLAIMED IS:

1. A lighting unit comprising:

a plurality of light-emitting diode (LED) light sources arranged in parallel;

a plurality of light-guiding members arranged along a direction wherein said LED light sources are arranged;

a light reflecting part arranged on one side face of said light-guiding members;

a light diffusion part arranged on an other side face of said light-guiding members;

a light semi-transmitting reflection part arranged between said LED light source and said light diffusion part; and

an optical path changing part arranged above said light-guiding members;

wherein a side of said light-guiding members that faces said light diffusion part is flat.

2. A lighting unit according to claim 1, wherein said optical path changing part enables changing of an optical path extending perpendicular to a longitudinal direction of said LED light sources.

3. A lighting unit according to claim 1, wherein said optical path changing part enables changing of an optical path extending in a direction crossing perpendicularly to a longitudinal direction of said LED light

sources, and enables alignment of a projecting direction of light from said LED light sources.

4. A lighting unit comprising:

a plurality of light-emitting diode (LED) light sources arranged in parallel;

a plurality of light-guiding members arranged along a direction wherein said LED light sources are arranged;

a light reflecting part arranged on one side face of said light-guiding members;

a light diffusion part arranged on an other side face of said light-guiding members;

a light semi-transmitting reflection part arranged between said LED light source and said light diffusion part; and

an optical path changing part arranged above said light-guiding member;

wherein a side of said light-guiding members that faces said light diffusion part is flat, and said light guiding members are provided with plural grooves to accommodate said plural LED light sources.

5. A lighting unit according to claim 4, wherein a transmission coefficient of said semi-transmitting reflection part is lower than a reflection coefficient of said semi-transmitting reflection part.

6. A lighting unit according to claim 4, wherein said semi-transmitting reflection part has transmitting-scattering characteristics.

7. A lighting unit according to claim 4, wherein a plurality of said light diffusion parts are provided, and an interval is provided between each of said light diffusion parts.

8. A display apparatus comprising:

a lighting unit including

a plurality of light-emitting diode (LED) light sources arranged in parallel,

a plurality of light-guiding members arranged along a direction wherein said LED light sources are arranged,

a light reflecting part arranged on one side face of said light-guiding members,

a light diffusion part arranged on an other side face of said light-guiding members,

a light semi-transmitting reflection part arranged between said LED light source and said light diffusion part, and

an optical path changing part arranged above said light-guiding members,

wherein a side of said light-guiding members that faces said light diffusion part is flat;

color filters; and

a display panel which is capable of displaying images;

wherein spectral luminescent characteristics of said LED light sources are included in spectral transmission coefficient characteristics of said color filters.

9. A display apparatus comprising:

a lighting unit including

a plurality of light-emitting diode (LED) light sources arranged in parallel,

a plurality of light-guiding members arranged along a direction wherein said LED light sources are arranged,

a light reflecting part arranged on one side face of said light-guiding members,

a light diffusion part arranged on an other side face of said light-guiding members,

a light semi-transmitting reflection part arranged between said LED light source and said light diffusion part, and

an optical path changing part arranged above said light-guiding members,

wherein a side of said light-guiding members that faces said light diffusion part is flat;

a display panel which is capable of displaying images; and

a control unit to control an on-off operation of said LED light sources of said lighting unit in synchronism with scanning of said display panel.